

Fig 5

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1 gcttcgcggg ggcgcggggcgg cgcgcggcccc cggctgctcc cgcgcgcggcc cggaccgcgcg ccccgccggg gcagcgggtgg tgagagcccc gactccccgg
101 acgcgcgcgg ccgtgccatg ggggttccccg cgcgcggcgt gctctgcgcg ctgtgctgcg gctcctggc cccggctgcc cgcgcgggct actcgcgagga
>>.....CDS.....>
201 ggcgtgcagc tggaggggga cgcgcctcac ccaggagccc ggcagcgtgg ggcagctggc cctggcctgt gcggaggggc cgttgagtgc gctgtaccgc
>.....CDS.....>
301 e r c s w r g s g l t q e p g s v g q l a l a c a e g a v e w l y p
gctgggggcg tgcgcctgac cctggggcgc ccgatccca gagcgcggcc cggcatcgcc tgctgcgcg cggctgcggc cttcgggggc gcccaggtct
>.....CDS.....>
401 a g a l r l t l g g p d p r a r p g i a c l r p v r p f a g a q v
tcgcggagcg cgcagggggc gccctggagc tgctgctggc cgaggggccc ggcgcggcag ggcgcggcgt cgtgcgtgg ggtcccgcg agcgcggggc
>.....CDS.....>
501 f a e r a g g a l e l l l a e g p g p a g g r c v r w g p r e r r
cctcttctcg cagggcacgc cgcaccagga catcagccgc cgcgtggcgc ccttcgctt tgagctgcgc gaggaaggcg gccccgagct gccccgcgag
>.....CDS.....>
601 a l f l q a t p h q d i s r r v a a f r f e l r e d g r p e l p p q
gccacggtc tcggcgtaga cggtgccctgc agggccctgca gcgacgtga gctgctctg gcgcatgca ccagcgactt cgtaattcac gggatcatcc
>.....CDS.....>
701 a h g l g v d g a c r p c s d a e l l l a a c t s d f v i h g i i
atgggggtcac ccattgacgtg gagctgcagg agtctgtcat cactgtggtg gccgcccgtg tcctccgcca gacaccgcgc ctgttccagg cggggcggatc
>.....CDS.....>
801 h g v t h d v e l q e s v i t v v a a r v l r q t p p l f q a g r
cggggaccag gggctgacct ccattcgtac cccactgcgc tgtggcgtcc acccgggccc aggcaccttc ctcttcattg gctggagccg ctttggggag
>.....CDS.....>
901 s g d q g l t s i r t p l r c g v h p g p g t f l f m g w s r f g e
gcccggtgg gctgtgccc acgattccag gattccgcc gtgcctacga ggtgccctg gctgccacc tccaccctg cgagggtggc ctgcactgag
>.....CDS.....>
1001 a r l g c a p r f q e f r r a y e a a r a a h l h p c e v a l h - (SEQ ID NO: 3)
gggctgggtg ctgggggagg gctggtagga gggagggtg gccactgct ttggagggtga tgggactatc aataagaact ctgttcacgc aaaaaaaaaa
1101 aaaaaaaaa (SEQ ID NO: 2)
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Fig 6

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1  ccacgcgtcc gccacgcgt ccgcgcttct ttgcgcgtc tgttgccgc tcttgccgc gtcgcgtcact gctggctact cggaagaccg ctgcagctgg
>>.....>
>  h a s a h a s a l l c a l c c g l l a a s a h a g y s e d r c s w
101 aggggcagcg gtttgacca ggagcctggc agcgtgggc agctgacct ggaactgtact gaggcgcta tcgagtggct gtacccagct ggggcgctgc
>>.....>
>  r g s g l t q e p g s v g q l t l d c t e g a i e w l y p a g a l
201 gcctgacct gggcgccccc gatccgggca cacggccccc catcgctctgt ctgcgccag agcgccctt cgctggcgcc caggtctctg ctgaacgtat
>>.....>
>  r l t l g g p d p g t r p s i v c l r p e r p f a g a q v f a e r
301 gaccggcaat ctagagttgc tactggccga gggcccgac ctggctgggg ccgctgcat gcgctgggt ccccgcgagc gccgagccct ttctctgcag
>>.....>
>  m t g n l e l l l a e g p d l a g g r c m r w g p r e r a l f l q
401 gccacaccac accgcgacat cagcgcaga gttgctgct tccgttttga actgcacgag gaccaacgtg cagaaatgc tccccaggct caaggtcttg
>>.....>
>  a t p h r d i s r r v a a f r f e l h e d q r a e m s p q a q g l
501 gtgtggatgg tgcctgcagg cctgcagtg atgcccagct cctcctggct gcctgcacca gtgattttgt gatccacggg accatccatg gggtcgcccc
>>.....>
>  g v d g a c r p c s d a e l l l a a c t s d f v i h g t i h g v a
601 tgacacagag ctgcaagaat cagtcacac tgtgtgtgtt gctcgtgtca tccgccagac actgccactg ttcaagggaag ggagctcgga gggccaaggg
>>.....>
>  h d t e l q e s v i t v v a r v i r q t l p l f k e g s s e g q g
701 cgggcctcca ttcgtacctt gctgcgctgt ggtgtgcgtc ctggcccagg ctctctctc ttcattggct ggagccgatt tggcgaagct tggctgggt
>>.....>
>  r a s i r t l l r c g v r p g p g s f l f m g w s r f g e a w l g
801 gtgctcccc cttccaagag ttacgctgtg ttatttcagc tgctctcag acccatctca accatgtga gatggcactg gactgagaga cctgggagca
>>.....>
>  c a p r f q e f s r v y s a a l t t h l n p c e m a l d - (SEQ ID NO: 8)
901 agccctggat ggaccttctt ctggagatgg ggtgttgggg aggtgatgg gagggtgggt gagaagggtg tggctcggat ggcacccctgg taccacagt
1001 gagctggtag aatactaagt aatctggacc ataaaaaaa aaaaaaaa (SEQ ID NO: 7)

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Fig 7a

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1  gggcagcgc gccgcgggct gctgcgcgct cgtcccccac cgtcccccgc cagcagtcgc agggcccccgc gcgtccccc accatgctgg
   >>CDS.>
   m l
91  tagccacgct tctttgcgc cctgtgttgc gctcctggc cgcgtccgct cagcgtggct actcggaaga ccgctgcgc tggaggggca
   >.....CDS.....>
   v a t l l c a l c c g l l a a s a h a g y s e d r c s w r g
181 gcggtttgac ccaggagcct ggcagcgtgg ggcagctgac cctggactgt actgagggcg ctatcgagt gctgtaccca gctggggcgc
   >.....CDS.....>
   s g l t q e p g s v g q l t l d c t e g a i e w l y p a g a
271 tgcgcctgac cctggggcgc ccgataccg gcaacggcc cagcactgc tgtctggcc cagagcgcc cttcgtggt gccaggtct
   >.....CDS.....>
   l r l t l g g p d p g t r p s i v c l r p e r p f a g a q v
361 tcgctgaacg tatgacggc aatctagagt tgcactggc cgagggcccg gacctggctg gggggcgctg catgcgctg ggtcccccgc
   >.....CDS.....>
   f a e r m t g n l e l l l a e g p d l a g g r c m r w g p r
451 agcgcgagc ccttttctg caggccacac cacaccgca catcagcgc agagtgtctg cttccgttt tgaactgcac gaggaccaac
   >.....CDS.....>
   e r r a l f l q a t p h r d i s r r v a a f r f e l h e d q
541 gtgcagaaat gtccccag gtccaagtc ttggtgtgga ttgtgcctgc aggccctgca gtgatgccga gctcctctg gctgcatgca
   >.....CDS.....>
   r a e m s p q a q g l g v d g a c r p c s d a e l l l a a c
631 ccagtattt tgtgatccac gggaccatcc atgggggtgc ccatgacaca gagctgcaag aatcagtcac cactgtggtg gttgctcgtg
   >.....CDS.....>
   t s d f v i h g t i h g v a h d t e l q e s v i t v v a r
721 tcatccgcca gacactgcca ctgttcaagg aaggagctc ggagggccaa ggccgggctt ccattcgtac cttgctgcgc tgtggtgtgc
   >.....CDS.....>
   v i r q t l p l f k e g s s e g q g r a s i r t l l r c g v
811 gtccctggcc aggtccttc ctcttcattg gctggagccg atttggcga gcttggtctg cgtgtgctcc ccgttccaa gagttcagcc
   >.....CDS.....>
   r p g p g s f l f m g w s r f g e a w l g c a p r f q e f s
901 gtgtctattc agctgctctc acgaccatc teaacccatg tgagatggca ctggactgag agacctggga gcaagccctg gatggacatt
   >.....CDS.....>
   r v y s a a l t t t h l n p c e m a l d - (SEQ ID NO: 26)
991 cttctggaga tgggtgtgtt gggaggttga tgggaggtg ggtgagaagg gttggtctg gatggatcc tggataccac agtgagctgg
1081 tagaatacta agtaaatctg accataccag ccaatgtagt catggtcttc tgtggcaggc agcataccca gctctgtgcc tgcctcactt
1171 tgtctactct ccagctctgt gcccttctaa cccttcttag cctgctgacc agtgagctca tgttttctc gaattccagg gtgctgctgg
1261 ggttcagagc aaccgtgccc tagtttggaa gacttgagct aattgttttt tttttgtttg tttttttgtt tggttaagg tggcctgggg
1351 gggcgccgca aca (SEQ ID NO: 25)

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Fig 7b

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1  atgctggttag cggcgcttct ctgcgcgctg tgcgcggcc tcttgctgc gtccgctcga gctggctact ccgaggaccg ctgcagctgg aggggcagcg
>>.....CDS.....>
    m l v a a l l c a l c c g l l a a s a r a g y s e d r c s w r g s
101 gtttgacca ggaacctggc agcgtgggc agctgacct ggattgtact gaggtgcta tccagctgt gctccagct gggcgctgc gcctgactct
>>.....CDS.....>
    g l t q e p g s v g q l t l d c t e g a i e w l y p a g a l r l t
201 agggcgtct gatccgggca cgcggcccg catcgtctgt ctgcgcaca cagggccctt cgtgggtgcc caggtcttgc ctgaacggat ggcgggaac
>>.....CDS.....>
    l g g s d p g t r p s i v c l r p t r p f a g a q v f a e r m a g n
301 cttaggtgc tactggcca gggccaaggc ctggctggg gccgtgcat gcgtggggt cctgcgcgc gccgagcct tttcctgag gccacgccac
>>.....CDS.....>
    l e l l l a e g q g l a g g r c m r w g p r e r r a l f l q a t p
401 accgggacat cagccgcaga gttgtgctt tcaattga actgcacgag gaccaactg cagaaatgc tccccaggc caagggtttg gtgtggatgg
>>.....CDS.....>
    h r d i s r r v a a f q f e l h e d q r a e m s p q a q g f g v d
501 tgcctgcagg cctgcagtg atgcgcagct ccttctgact gcctgcacca gtgactttgt gatccatggg accatccatg gggctgtcca tgacatggag
>>.....CDS.....>
    g a c r p c s d a e l l l t a c t s d f v i h g t i h g v v h d m e
601 ctgcaagaat cagtcacac tgtggtggc actcgtgtca tccgcagac actgcactg ttccaggaag ggagctcggg gggccggggc caggcctccg
>>.....CDS.....>
    l q e s v i t v v a t r v i r q t l p l f q e g s s e g r g q a s
701 ttcgtacctt gttgcgtgt ggtgtgcgtc ctggcccagg ctcttctc tccttctc ttcatggggt ggagccgatt tggcgaagct tggctgggt gcgctccccg
>>.....CDS.....>
    v r t l l r c g v r p g p g s f l f m g w s r f g e a w l g c a p
801 cttccaagag ttcagccgtg totattcagc tgcctcgcg gccacactca acccatgtga ggtggcactg gactgagaga cctggggagca agccctggat
>>.....CDS.....>
    r f q e f s r v y s a a l a a h l n p c e v a l d - (SEQ ID NO:13)
901 ggatcttct ctgggggatgg ggtgttggg aggggtgata ggagggtggg tggggaagggt gtggctcaga tggcatcttg gtaccacag tgagggtggta
1001 gaatactaaa taacctggat cacacc (SEQ ID NO:12)

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Fig 8